

SEQUENCE LISTING

<110> EVOTEC NeuroSciences GmbH

<120> DIAGNOSTIC AND THERAPEUTIC USE OF A RAB FAMILY
GTP-BINDING PROTEIN FOR NEURODEGENERATIVE DISEASES

<130> 021863ep ME/BM

<140> 02015429.0

<141> 2002-07-12

<160> 15

<170> PatentIn Ver. 2.1

<210> 1

<211> 194

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Ile Arg Glu Leu Lys Val Cys Leu Leu Gly Asp Thr Gly Val

1

5

10

15

Gly Lys Ser Ser Ile Val Cys Arg Phe Val Gln Asp His Phe Asp His

20

25

30

Asn Ile Ser Pro Thr Ile Gly Ala Ser Phe Met Thr Lys Thr Val Pro

35

40

45

Cys Gly Asn Glu Leu His Lys Phe Leu Ile Trp Asp Thr Ala Gly Gln

50

55

60

Glu Arg Phe His Ser Leu Ala Pro Met Tyr Tyr Arg Gly Ser Ala Ala

65

70

75

80

Ala Val Ile Val Tyr Asp Ile Thr Lys Gln Asp Ser Phe Tyr Thr Leu

85

90

95

Lys Lys Trp Val Lys Glu Leu Lys Glu His Gly Pro Glu Asn Ile Val

100

105

110

Met Ala Ile Ala Gly Asn Lys Cys Asp Leu Ser Asp Ile Arg Glu Val

115

120

125

Pro Leu Lys Asp Ala Lys Glu Tyr Ala Glu Ser Ile Gly Ala Ile Val

130

135

140

Val Glu Thr Ser Ala Lys Asn Ala Ile Asn Ile Glu Glu Leu Phe Gln

145

150

155

160

Gly Ile Ser Arg Gln Ile Pro Pro Leu Asp Pro His Glu Asn Gly Asn

165

170

175

Asn Gly Thr Ile Lys Val Glu Lys Pro Thr Met Gln Ala Ser Arg Arg

180

185

190

Cys Cys

<210> 2

<211> 585

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: complete cDNA
of RAB 31 gene

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atggcgatac gggagctcaa agtgtgcctt ctcggggaca ctggggttgg gaaatcaa
gc 60

atcgtgtgtc gatttgtcca ggatcacttt gaccacaaca tcagccctac tattgggg
ca 120

tcttttatga ccaaaaactgt gccttgtgga aatgaacttc acaagttcct catctggg

ac 180
actgctggtc aggaacggtt tcattcattg gctccatgt actatcgagg ctcagctg
ca 240
gctgttatcg tgtatgatat taccaagcag gattcatttt ataccttcaa gaaatggg
tc 300
aaggagctga aagaacatgg tccagaaaac attgtaatgg ccatcgctgg aaacaagt
gc 360
gacctctcag atattaggga ggttcccctg aaggatgcta aggaatacgc tgaatcca
ta 420
gggccatcg tggttgagac aagtgcaaaa aatgctatta atatcgaaga gctcttc
aa 480
ggaatcagcc gccagatccc acccttggac ccccatgaaa atggaaacaa tggaaacaa
tc 540
aaagttgaga agccaaccat gcaagccagc cgccggtgct gttga
585

<210> 3
<211> 212
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: cDNA fragment
of RAB31 gene

<400> 3
accgtggacc acggcccttg ggtcaacagc accggcggct ggcttgcattt gttggctt
ct 60
caacttttatgat tttccatgg tttccactttt catgggggttc caagggtggg atctggcg
gc 120
tgattccttg aaagagctct tcgatattaa tagcattttt tgcaacttgc tcaaccac
ga 180
tggcacctat ggattcagcg tattccttag ca
212

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
RAB31 gene

<400> 4
actgctgaag gaccctacgc
20

<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for
RAB31 gene

<400> 5

gatgcaaagg cagtgtgctc

20

<210> 6

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer for
cyclophilin B gene

<400> 6

actgaaggcac tacgggcctg

20

<210> 7

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for
cyclophilin B gene

<400> 7

agccgttgtt gtctttgcc

19

<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer for
ribosomal protein S9 gene

<400> 8

ggtcaaattt accctggcca

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<210> 9
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
ribosomal protein S9 gene

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tctcatcaag cgtcagcagt tc
22

<210> 10
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
beta-actin gene

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tggaacggtg aaggtgaca
19

<210> 11
<211> 19
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<220>
<223> Description of Artificial Sequence: Primer for
beta-actin gene

<400> 11
ggcaaggagac ttcctgtaa
19

<210> 12
<211> 20
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<223> Description of Artificial Sequence: Primer for the

GAPDH gene

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cgtcatgggt gtgaaccatg
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<210> 13

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer for the
GAPDH gene

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gctaaggcgt tggtggtgca g
21

<210> 14

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for the
transferrin receptor gene

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gtcgctggtc agttcgtgat t
21

<210> 15

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for the
transferrin receptor gene

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agcagttggc tgggttaccc ttc
23